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|  | Mramek |
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Software reviews for: spectrum, BBC, Dragon, Atari, Commodore 64,

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| commodore 64 <br> Fichtopithe |
| oric/Atmos Mily youbea |
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$=\frac{\text { PLAYBOX }}{=(\sqrt{2})}$ H8


## Work from home

Now you can convert your BBC or Electron to a handy office machine, with the help of Mini Office, from Daiabase Publisations.
Mini Office comprises a word processor, database, spreadsheet and graphics package all for 65.95 in tape version or 27.95 on disc.

Managing director Derek Meakin said: "We are aiming at one man firms who cannot afford to pay for the business software currently on the market. It will also be well in the price range of housewives who wish to use it for domestic bookkeeping or children wanting to monitor their pocket money:

The word processor features a constant display of time and word count, plos a words per minute display and double size text option in edit and printer mode.

The whole package comes together with a 32-page operating guide. "At this price. home computers will no longer be restricted to games," said Mr Meakin.

Database Publinations, Europa Hse, 68 Chester Rd. Hazel Grove, Stockport SK7 7 SNY

## heerch Sofit presents..

## pancoli. BEAR CEORCE

A story of high drame and doring deede from the annels of our hero BEAR GEORGE can you help him sunve 'unbearable' hazards in the foreal and deep cold of the mountains, and then live through hibernation?



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## Software charts

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Our exclusive guide to best-selling arcade and non-arcade software, plus Top 10 for six home computers

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## SOFTWAREREVIEWS

Skill and daring
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Pit your wits against this batch of games for the Spectrum, Atari, BBC and Dragon
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Educational software for the Dragon and Commodore 64
Companies: send your news and products for review to the editor at the address below. And contact him for competitions and other promotions too


## PROCRAMS

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A drama-packed action game, Hover-Rescue gives you the chance to be a hero
Spectrum . . . . . . . . . . . . . . . . . . . . . . . . . . . . 19
Type in this bumper program for the 48 K Spectrum and see how your battle skills are rated by the Galactic High Commission

## Commodore 54 <br> 24

Time's running out fast - can you fight off the kamikaze pilots?
Readers: we welcome your programs, articles and tips. See the panel in this issue for details

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# ters Letters Letters Letters Le 

## Sord cry for

## help

I am a fristrated Sord M5 owner. Although 1 think it is quite a good computer, not enough software is available for it and most of the games out on cassette are worse than magazine listings. I have BASIC-G and am disappointed that no games have been written for it. Surely some of the major software companies could convert games written for 16 K computers, like the Spectrum, Tl-99/4A and VIC. 20 ?
J am also disappointed by the lack of information about PEEK, POKE and machine code, which are all needed to write fast and exciting games. I would like to get to know anyone owning a Sord M5 in my area to swap soltware and information.
M. R. Tallis, 145 Woodhouse Iage E, Timperley, Cheshire

## Question

and answer
I own a Commodore 64 and I wauld like to know how you complete the third sheet on the Tale of the Arabian Knights. If anyone knows, please tell me.

Here's the answer to M . Livingstone's question (HCW 73). To cheat on Revenge, load the game, When it runs, type in "GOATS" and you will see coming up on the screen "Cheat Mode". If you don't like a screen just press any key to go on to the next screen.
C. Ahmet, London SW2

## How the

Texas works
I arn writing in answer to Mark Wallhead's question (HCW 75) about the TI99/4A character sets. The computes has more than just five or six character sets; it has 128 in all, between CHR\$(1) and CHRS(32767). Unfortunately they are all the same one, i.e. if you change the shape of a character in the first set it will change in all the others as well.

The reason for this is that each set has its own 'page' of memory, 0 to 256 or 11111111 in binary. You can divide 32768 by 256 x 128 times, bence $\$ 28$ character sets. Although the
$\mathrm{TI}-99 / 4 \mathrm{~A}$ is a 16 bit compuler it transfers information in 8 bit form and so when a character number is more than 256 it cambet handle it unless it is converted into a number within its range. So if you ask the computer to print CHRS(286) it will actually print CHR\$(30).

The purple characters he mentions are in fact control characters which change shape when the computer performs certain tasks but other than that I do not know of any real use for them. I hope this will be of some help to him.
Austin Platt, St Helens, Merseyside

## Let us in

My brother has a 48 K Spectrum and Urban Upsiart. How do you get into the town hall in Urban Upstart? My brother has tried to get in, but gets the reply "Someone won't Ict you in'. Please help us. Jamie Bart, Midlothian

## Pep up

## your screen

In HCW 75 I read Tommie McCall's letter about how to add character to your screens.

My version is to design your sereen and rus it, then enter. SAVE "filename" SCREENS and save as normal. In his letter lines 10,20 and 30 can be used. Line 40 should be changed to 40 LOAD "'" SCREEN\$: PRINT AT0, $0 ;$ LOAD $^{* *}$. Ian Jackson, Preston

## Texas OAP <br> fan

Thank you to Brummy Maurice Rymill for joysticking Phil Ord's Pearl Divers (HCW 73). However, his score facility was alsacked by the compositor or some other gremlin and prodttes a string mismatch in 1132 and another cockup in 3020 .
But who am I to moan? Yours is the only periodical regularly printing listings and news for our medieval Texas machines, and for that I am extremely grateful.

I am an OAP, consequently the high cost of games modules is beyond the scope of my pocket, as are the cassettes marketed
by software firms. Thus I look forward to HCW each week, hoping for another game similar to Dave Martin's Strategy Board (HCW 64) which has given my wife and me long hours of pleasure when there is only rubbish on the box.
If any of your readers have any unwanted original software and are not wanting too high a price 1 would be grateful if they would get in rouch with me, via HCW
Philip Munro. Prestwich, Manchester

## Here's what

## to do

After reading D. Moore's fetter (HCW 66) about Lunar Jetman, 1 felt sorry for him and have written some points to help him play the game.

J Pick up the bomb, using symbol shift, then fly over the Lunar Rover. As you fly past the cab (Iront) of Lunar Rover, release with symbol shift, so that the bomb should land right on top of the Lunar Rover.

2 Then stand between the Lunar Rover's wheels. Press break space, move the Lunar Rover using the keys for the Jetman. On screen there is an arrow near the top of the screen saying 'Alien Base: Go in the direction in which the arrow points.
3 If at any point you come across pot holes, you can release the Jetman from his Lunar Rover using break space. Still between the wheefs, press symbot shift. This will give you a bridge. Fly or walk acrose the hole. Press symbol shift to release the bridge and repeat the process until the holes are filled in.
The idea of the game is to get the Jetman inside the Lunar Rover and save on his fuel by using the Lunar Rover's unlimited supply. with the bomb on top of the Rover.
Head for the Alien Base. You will know when you get there because there are two cones in the ground and a force field. Fly with the bomb across the base, then release it. The main idea is to destroy as many alien bases as you can.
Conrad Sweeney, Coventry
Soffmare winner

Tip for willy

## fans

I enclose a program for Jet Set Willy fans. At any point, press ' $S$ ' and the picture will automatically be saved as SCREEN\$.

To use, type in the program, run it and it will load the game. You will then be asked to press ENTER (you'll still need the codes).
Lennie Jarman, Colchester, Fssex

## Bouquets

cind
brickbats
First a bouquet: If HCW is not on my breakfast table on Wednesday morning, I get withdrawal symploms. Yours is a most readable magazine.

Having said that, a small brickbat: While 1 appreciate the cost of good quality printing paper, I do protest at the smallness of the print yout use 10 print some programs. My aged zyes ( 1 'm $50+$ ) just can't cope.
May I suggest to Spectrum owners who can't afford an expensive monitor - use the one Sir Clive gave you. After switching on, type in:

## BORDER 0:PAPER 0: INK

4 ENTER, ENTER

## R.M. Jones, Stockport

Our apologles for the inconvenience caused by the size of the printing. Sometimes lack of space means that fasings must be reduced to fit in: but at least we make good use of the space, to bring you more of what you want?

## Record <br> scores

1 am writing to inform you of my record scores on the TI 99/4A.
They are as follows: Munchman - 125,310 (sheet 30); The Attack 186,400 (level 4, Stardate 16); Car Wars - 50,340 (level 3, sheet 6).

Has anyone beaten these scores?
On the subject of Texas adventure games: with my family, I have solved Pirate Adventure and Adventureland.

But, we are completely stuck on Ghost Tawn. I have found seven (reasures: cashbox, silver spurs, silver cup, silver bullet, oriental Go-board, gold nugget, pelts.

1 am trying to shoe the horse in the stable, find a gun, a hammer, and a way to open the safe in the telegraph office.

Can anybody help me?
Sally Parker, Lymm, Cheshire

## The key to <br> the problem

In reply to Mrs A. Smith's letter (HCW 74) aboui Mad Martha, we can help her. When you are in your bedroom, you must examine the china utensil (potty). Inside it you will find a small key. Take the key. When you arrive in the lounge, you must examine the portrait. You will find the key will in handy.

Thanks for a great mag keep up the good work. Cathy Jones and Jacky Crane1t, Mold Clwyd

## THBE FOM

## 10Stath

Here are some useful tips for Urban Upstart.
If you get stuck in the Police cell, drink lager (which you can get from the fridge in the house), in the cell.
You will then be taken to the hospital, where you can get out by taking and wearing the white coat.

1 think this game is the best adventure available, because there is a different graphical picture wherever you go.
I aiso think. yout magazine is equally great, and very good value.

Chrls Palmer, Scunthorpe, South Humberside

Stint your letters to Letters, Home Computing weekly. Mo.iGolthensquere Londion WIR 3AB. Don't forget to er-the best letter coutd win \&s-worth of software, Get in problem with your milcrot We'll soon Be starting a send your techmicel auestlons to Oueries at the chove addirestis.

## NEWS

## Free membership

Microdeal's own user group, the Cuthbert Club, is now offering membership free of charge.

Anyone wishing to join needs to write to Microdeal and members will receive a free badge, quarteriy magazine and hint sheels.

Microdeal, 4l Truro Road, St. Austell, Comwall PL25 5JE

## Check mate

This year's Worid Microcomputer Chess Championship (the 4th), will take place in Glasgow from September 9 to 15.

Any individual or group, including software bouses, may enter their own chess programs.
John Glendinning, 30 Rylands Drive, Mount Vernon, Glasgow G32 OSB

## Charity Success

Oxfam's current appeal for personal computer software has so far resulted in contributions of over $£ 10,000$-worth of games and business cassettes.

More than 30 manufacturers, as well as private individuals and collectors, have donated their surplus stock, and cassettes are still arriving at Oxfam's North London office.

A spokesman for the charity said: "This reaction to a new appeal has been fantastic! Obviously, we want to thank everybody who has contributed so far as well as to encourage others to give us what they can over the next couple of months.'

The software appeal is due to finish at the end of September, and the date of the special sale will be announced in the near future.
Oxfam, 724 High-Road, Finchley NI2 9QD

## Duality printing

Retailing at a cost of $£ 375$, the TRD is a new printer from Triumph Adler which offers high quality Daisy Wheel printing at 20 characters per second.

This machine is suited for use with personal computers costing from $£ 200$ upwards, bul is aimed at any system where
the primiary application is word processing.

A library of over 150 interchangeable print wheels provides a choice of type styles which can be printed 10,12 or 15 characters per inch or with proportional spacing.

Three versions of the product are available, with either RS232, Centronics or dual interfaces.

The machine is also capable of plotting for graphic applications.

Triumph Adler (UK), 27 Goswell Road, London ECIM 7AJ

## Lead for Amstrad

A printer lead to comnect the new Amstrad CPC 464 computer to any Centronics compatible printer is now available ex-stock from Computer Services.

The lead is 1 m in length and features gold-plated contacts with double wipes on the 34-way edge connector end.

Cost of the lead is $£ 14.87$ including postage and packing.
Compurer Services, 63 Ouilp Drive, Chelmsford, Esex CMI 4YD

## Crossassembler immenent

A target release date of September 1 has been set for a new Z-80 cross-assembling version of Mikro, from Supersoft.

Mikro 80 is being written in 6502 machine code, to run on the Commodore 64; however it will assemble $\mathbf{Z - 8 0}$ opcodes rather than 6502 opcodes.
In a parallel project, Supersoft is investigating the various means by which assembled code can be transferred to the target computer. A direct cable link between the 64 and the $\mathrm{Z}-80$ computer seems the most likely solution.

Supersoft, Winchester House, Canning Road, Wealdstone, Harrow, Middfeser HA3 7SJ

## starter pack

A cassette recorder/player is now being given away free with every new M5 home computer from CRL - the whole package forming the new Starter Pack.

Also included in the package is an application ROM cartridge

- "Basic I", introduction to programming, a manual and users' guide, two cassette games, and all the necessary cables to connect the M5 to a TV set.
Additions have also been made to the firm's software range - with eight new game cassettes being introduced.

The six new single garne
cassettes are: Bomber Run; Devil Bird, Intrigue, Slots, Stranded, and Wheels. The new Triple game cassettes are: Simon/Granny/Spiders and Squasb/Lander/Raiders. Single games are $£ 5.95$ cach, and triple games are $£ 12.95$ each.

CGL, CGL House, Goldings Hill, Loughton, Essex JGlo $2 R R$

Starter Pack from CGL, including free cassette recorder/player


## You could be on our pages

We welcome programs, articles and tips from our readers. If you feel that vour work meets our standards, please submit it to us for consideration for publication.

- Programs must always be sent on cassette. Listings are helpful, but not necessary. Check carefully that they are bug-free. include details of what your program does, how it woriss, variables you have used and hints on conversion.
- Articles on using home computers should be no longer than 2,000 words. Don't worry about your writing ability - just try to keep to the style in HCW. Articles most likely to be published will help our readers make better use of their micros by diving useful ideas, possibly with programming examples. We will convert any sketched Iliustrations into finished artwork.
- Tips are short articles, and brief progrannming routines, Your hints can aid other computer users.
All submissions will be acknowiedged and the copyright in such works which will pass to Argus specialist Publications Ltd will be paid for at competitive rates.
Keep a copy of your work and include an SAE. Label everything ciearly and give a daytime and home phone number if you can.
All work for consideration should be sent to:
Paul Liptrot, Home Computing Weekly,
No. 1 Goiden Square, London W1R SAB


# Chicken Run Dragon 32 $E 7.95$ 

Impsoft， 149 Balham Hill， London SW12

If you like the sort of game that leaves you with brain ache at the end of a session this one should be just right for you．Explaining the plot could take this whole review，but it a nutshell you control both the hen，who is trying to lay her eggs in peace and keep her energy level up，and Farmer Foily who is trying to keep the feeding troughs filled and collect the eggs．The problem is further compounded by the fox who tries to cat the hen．

## Although there is no cock bird

 around，eggs ieft uncoliected hatch into chickens and go around in search of food for
## themselves．

There are 50 many things to keep your eyes on that I innd myself mind boggled，but it is possible to keep things under control if you keep cool．The bright spots are that you have a hen with three lives，very good sound and graphics and responsive joystick controls．The scoring is a little stingy in my opinion bus it could become addictive．Sorry， 1 must finish now，there＇s another eg g to collect．．．
instructions
95\％
playability
$50 \%$
graphics
value for money
$65 \%$
> olx Mille 48K Spectpum $E 1.99$

CCS， 14 Langton Way，London SE3 7TL

1 didn＇t think much to this when I read the sleeve notes．A dice game？I thought even less when I saw the simple standard of screen presentation，and realised it was mostly in BASIC．
How wrong can you be？It＇s riveting， 1 can＇t leave the thing alone！！

Up to six players can play，or your Spectrum will do battle against you alone．Six dice are thrown，by machine code，to the screen，then you choose．

When you see what you＇ve thrown，you can take，adding to your score，and／or throw again．

As the number of dice decreases in your turn，the odds against getting a winning combination grow，whilst the odds of throwing three 2 ＇s get longer．

You can，however，quit while the going is good，and hand over to the next player．The first to score ten thousand wins．

Sounds boring doesn＇t it？［t＇s nor！！Eventually，I realised that when I＇r losing heavily，I have nothing to lose by gambling，and the same applies when I＇m well ahead．Bur if it＇s neck and neck， care is called for．

| instructions | $75 \%$ |
| :--- | ---: |
| playability | $85 \%$ |
| graphics | $85 \%$ |
| value for money | $100 \%$ |

graphics
$85 \%$
$100 \%$

## 女 女 女 女

## Double Dealer 4aK Spectrum

## E6．50

MFM，141a Camden Rd，Tur－ bridge Wells，Kent TN1 2RA

Double Dealer fcaurures the two well known card games of black－ jack，an advanced and expensive form of pontoon，and stud poker，just like the western movies！Your Spectrum is the dealer and opponent．
In both games，the cards are？ revealed on a lurid，shimmering i green background，and as graphics po，are something of a disappointment．
No nice kings and queens，just big letters K and Q ．There are， however，some good touches in terms of sound routines when cards are shuffled and the games start．
You can gamble away to your heart＇s content，secure in the knowledge that all the money you＇re losing isn＇t real！

There are several levels of difficuity，but you aren＇t allowed onto the higher ones until you＇ve broken the bank．．．and that takes some doing！
Your wins and losses are the subject of＂humorous＂mes－ sages．Some of the essential messages dissppear rather too quickly．
Certainly，these games will Nallow you to learn the rules， foractice，and occupy some time \％without leaving your chair．The instructions are fairly comprehensive without giving any real clue as to strategy．D．M．
instructions
playability
graphics
value for money

## Skill and daring needed for games

## Another fresh batch of games for you to pit your wits against

## Dambusters Atari 85.50

N，D．S．L．， 8 Green St，Willing ham，Cambs CB4 5JA
Prepare for take off in this exciting simulation of the famous raid on German dams during World War 2.

You begir in flying school and your object is to blow up the ${ }^{2}$ dams of the Upper Ruhr．
Take control of a Lancaster Bomber and fly from England， eventually arriving 的 the dam where you must carefully nim your bouncing bomb 30 as to explode against the dam wall．
After successfully breaching the dam you will be promoted to pilot and after each further accomplished mission you are also promoted until you reach the rank of group captain．
Your plane is equipped with machine guns and of course the bombs．

Whilst crossing the channel you may be attacked by ships firing radar controlied missiles and on reaching Europe you will be confronted by enemy fighier aircraft and ack－ăk guns．
Be carcful not to run out of fuel，though this is replenished， after each mission．
Dambusters features reason－ able graphics incorporated on a horizontal and vertical scrolling screen．Sound effects are also quite good．on the whole the game is quite realislic but 1 found it a fittle on the slow side．Good luck old boy，roger and out．

D．W．L．
instructions
playability
graphics
value for money

## 

Talent Computer Systemss，101 S James Rd，Glasgow G4 ONS

This program，an adventure，is produced for a number of home Incidentally there is no＇Help＇ computers and some versions feature in this game although have a full set of graphics but the you can save your position if you Acom versions are text only．get anywhere before you get
The scenario is a wild west killed．A good adventure if a adventure and the whole thing is fittle colourless，but the real time conducted in real time，so that if features do make response times you sit around for a while things long． start to happen around you．

That would be rather pleasant instructions if they were nice things but playability unfortunarely they aren＇t and 1 graphics seem to find most of the things value for money rather faral．

Take the robber for example， several things can happen when he appears，If you are carrying a pack of cards he will challenge

He might try to shoor yout and， despite what the instructions say， you don＇t start with a gun！He often misses but running away

```
                    % %a, 2. %at
```

                            -
    your to a game of pontoon，a nice ouch this，but 1 can＇t telt you hat he does if you win．


## West suaz $E 7.95$

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## Unique technology: British made Iaminated glass, aspherically curved Contrast Enhancement Antiglare Filler.

Up to now, contrast-enhancing filters computer displays-unprotected screens have always been flat-and so has their can cause blurred vision, watery and performance, because the screen of your itchy eyes, headaches and (according to TV, monitor or VDU is curved.

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Up to now, filters have been expensive - awkward production techniques have meant price tags from around £50 to well over $£ 100$.

Forget all that: the Romag CEAF is here. British designed and manufactured by space age military technologists, CEAF is profiled to fit your display screen, giving you the ultimate in contrast enhancement and antiglare performance. For under $£ 20$, this first generation of eye-fiendly filters diffuses all specular reflections, gives sharper image clarity from edge to edge of the screen and greatly enhances display colours.

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the clock by phoning the CEAF Department on (091) 4145524 , quoting your Access Card number. For other screen sizes, please ring or write the CEAF prices for 'specials' would be considered very competitive.... if there was any competition!
To FREEPOST ROMAG, CEAFDept. $\overline{\text { FLW }}$, Blaydon on Tyne, Tyne \& Wear NE21 8SG.
Telephon: (091) 4145524
My TV/Monitor/VDU is: $\qquad$ (make)
I $\qquad$ (model) $\qquad$ (size)
| My Computer is: $\qquad$ (make/model) Please send me: $\qquad$ $9^{\prime \prime}$ CEAF $(\mathrm{s})$

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\end{aligned}
$$

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for $\Sigma$ $\qquad$ made payable to ROMAG.
OR My Access Card No. is

## 

## Name

| Address



NOW is the time for all TI-99/4A users to get out their pens and spot some differences. The reward for the first 50 winners is a package of software from Warwick Software, of 40 Kingsway, Newby, Scarborough, N. Yorks.

Each package comprises three games (Hoppit, Caveman and Diver) together with the Typing Tutor - and each package is worth more than 521.
Hoppit is a variation on the Frogger-type game, Your tatik is to guide the fros across the raad avoiding cars and trucks along the way - until you reach the river. Then jump on the back of a turtle, and make youF way actoss river but watchotl for hungry crocodiles

Once acress the river, you simply jump down a srate which gets you home.

The second game is Ceveman, an underground explormtion game.

Go down if ladder to reach the first level - and all along you have to beware of various obstacles.
A cotal of five levels have to be passed through before you get the chance to sil on the King'e throne at the end of t tunnel which leads off from level five. Once you have achieved this, you're a winner.

We stay a long way down for the third gatie, but this time not below ground - below water,

Diver gives you the chanct to show your twimming skills, and make money into the bargain.

You are in control of a divet whote joh it is to recover differing items from the seabed. These include gold coins and human bones.

A ship passes above you, and you have to catch the ship and place

## Four of the best from Warwick Software <br> This week's competition gives all T1-99/4A users the chance to win three great games, and a program to help you improve your typing skills

your bounty to th.
Problems come in the form of ravenous sharks and man octopus.

All three of the games are for Extended BASTC, and Caveman also requires a joystick.

If you want to give the games a rest for a few minutes, and would prefer to spend your time learning - then the fourth program is right up your street.

Typing Tutor, for TI BASIC, is exwetly whet it sayl. The program starts off by taking you through the fundamentats - Like which key does what.

From that point te tive you Iraining until you reach the linal part of the prograns which is speed trial.

You will agree that these are fantastic prizes, and all you have to do to stand a chance of winning one of these packages is to try and spot as mary diffetences as possible in the two chrtoons below. Good luck

Study the two cartoons - there are a number of differences besween them. Circle the differences on cartoon B and seal the castoon and
coupon in an envelope, Write clearly the aumber of differences you found on the back of the envelope.

Post your entry to Warwick Competition, Home Computing Weekly, No. 1 Golden Square, London WIR 3AB. Entries close at first post on Friday September 14, 1984.

You may enter en many times as you wish, but each entry must be on an official coupon - not a copy and sealed in a sepporate envelope.

Important: piease follow carefully the guidelines on entering incomplete coupons and entries in envelopes with no numbers on the back cannot be considered. If you are a winner, the coupon will be used as a label to send your prize so clear writing is essential.

## The rules

Enaties will not be mecepted from employen of Argus Spectalitr Publications, Wrowick, and Alabater Pharmore a Sons. Thas restriction aiso apples to employen ${ }^{+}$famifics and agents of the companier.
The How to Enter section forms pist of the rules.

## Warwick Competition

## Entry Coupon

Neme
Addres:

> pod code

Number of differences found
Complese cleafly and fully - it you are a mitewimher thir will act mit Intiel. Pna is Warsick Competition, Home Computing Werly, No. I Colden Sgupre London wiR





## ■ 0 <br> A drama-packed action game from Barbara Prowse, Hover-Rescue gives you the chance to be a hero by rescuing people from a Towering inferno

 ro of the


How it works
100.790 game initialisation and instructions
3000-3470 main loop for each game
$4000-499$ land on roof
$4510-4580 \quad$... at base
5000-5010 initialise movement after landing
$5100-5180$ press any key to start routine
$5200-5420$ check for end of game and test for another
$5500-5540$ plot end message on screen
$9300-9340$ increment number rescued
9400-9590 plot next hazard $9600-9640$ plot number rescued $9700-9890$ draw playing screen $\$ 900-990$ initialise character set and machine code 10000-10110 date for redefined characters (a through w)
10120 data for variables DR(m) $11000-120 \% 0$ machine eode data

A tower block is on lire, and the occupants are sereaming for help on lop. Can anyone help them. Yes is the answer - you can, with the help of your trusty helicopter that fies between a new building under construction, and the Red Cross station The landing point on the tower is where the shout for heip is shown at the start of the game, and you must alternate between the two landing points otherwise you will be deemed ta have crashed.

When the helicopter is facing either left or right, you car only move across the screen, and when the helicopter is facing forward - you can only move up and down.

Quick reactions are reguired as the helfcopter will hift-off automatically when the rescued people board and leave.

This is a game where skill combined with speedy reactions art reguired - so now is your chance to be a hero by saving those people on lop of a skyscraper on fire.

[^1]
## DGRAM



## 94 REM＊


90 REM

97 REM＊ 1 PROUSE

99 REME

$\$ 20$ Gs＝＂HOVER－REGCLE（L）BARBMRA PROWSE 19日S

140 FOREI－17CLEN（E）

160 PRINT＂WELCOHE TO＂HCVER－RESCLIE＇．＂
170 PRIMTIPRTNF＂THERE WILL BE A BLIEHT DELAY WHTLE
IBO PRENT＂THE MACHINE CODE LOAD8，FIPRINT

200 CLEsPR！NT
210 PRINT＂DD YOU REDUIRE INGTRUCFIONG P＂IPRINY
220 PRINT＊（Y Y YE9，ANY OTHER KEV FOR NO）＂
230 GETE\＆，IFO\＆く〉＂Y＂THENF＊30
500 LLSIPRINT

320 PRINT：PRINT＂THE DBJECT OF THIS BANE IB TO FLY A＂
330 PRINT＂HELICDPTER FROH THE RESCLE BABE TO＂
340 PAINT＊THE TOP DF THE TOWER BLOCK MHERE THE＊
390 PRINT＂OCCLPANTE ARE BHOUTINE FDR HELP AG＂ 360 PRINT＂THE TOWER 18 ON FIRE，＂IPRINT
370 PRINT＂THE REgCUE LANDING PDINT IS DETWEEN＊
3 30 PRINT＂THE NEW RUILDINE UNDER CONGTRLETION En
390 PRINT＂THE RED CRDSS STATION－THE LAKDING＂
400 PRINT＂POINT ON THE TOWEA IS WEERE THE EHOUT＂
410 PRTNT＂FOR HELP IS gHOw AT THE BTART．＂IPAINT
420 PRINT＂YZU RUST ALTERNATE BETWEEN THE TWO－
430 PRINT＂LANDING POINTS OTMERWIEE YOU WILL DE＂
440 PRINT＂DEEMED TO MAVE CRASMED ：＂IPAINT

460 PRINT＂BUT IT MUBT DE MENTIONED THAT YOU CAN＊
470 PRINT＂ONLY OD UP AND DONH MHEN FACINS＂

490 PRINF＂ACROS日 THE SCREEN HEN FACING LEFT＂
500 PRINT＂OR RIOMT，＂IPRINT


## 6

 ，PRIN ${ }^{\text {T}}$
610 PRIMTR＞＂
GZO PRINT＂＝TURNG MOVER AROUND－MAY DNLY BE＝
630 PRINT＂UEED WHILET STAFIDNGRY＂IPRINT
G40 PRINTMLP A DOW CUREOR KEYS＂
GSO PRINT＂M MEVE日 HOVER UP OR DOWN－MAY ONY＂
660 PRINT＂BE USED WNEN FACINO FDRWARDS＂IPRINT
670 PRINT＂LEFT G R：GHT CURSUR KEYS＂
GBO PRTNT＂＝MOVEB HOUER LEFT OR RIGMT ACROSS＂
t90 PRINT＂THE GCREEN－MAY ONLY EE USED WHEN＊
700 PRINY＂FACINE LEFY OR M1EHT＂IPRIMT
$7: 0$ PRINTECTRL \＆ 8 AT THE SAAE TIME＂
720 PRINT＂$=$ TURNS SOUND DN／OFF＝TDGCLE ACTLDN＂sPRINT
730 PRINT＂RUIEK REACTIONS ARE RECUIRED AS THE＂
Y40 PRINT＂HOVER WKLL LIFT OFF AUTEMATICALLY＂
750 PRINT＂MEEN THE RESCUED PEOPLE BOARDJLEAVE＂
760 PRINT＂THE MONER，＂॥PRINT
770 PRINTMPRESS ANY KEY TO CONTINUE＂ICHRZ（27）：＂L．．．．．＞＂
780 EETG来
790 G0TDJ430
3000 RF＝0
3020 B8＝KEY＊：CALL 1 19147


3065 IFGI＝19THENGOSLB3500：EOTOS 140
3070 IFB1＝32THENPOKE36日S日， 0
30日O 1FG1＜BDRE1＞11THEK3140
3090 E2＊FEEK（H9021）
 0


3140 CALL 9119
 U84500
316G IFGI＞4E246ANDE1＜4日251ANDRF＝0THENG05U84000
\＄180 IFPEEK（ $\quad$ 901A）＜ 2 THENS 200
3200 EALLL 9147

## 3220 ह0TDJ3020

3400 IFPEEK（OTO1日）＞OTHEMPRETLFIN
3410 ह2－FEEK（36日97）
3420 IFG1－44THENG2－02－2
3430 IFQ1F46THENG2＝02＊2
3440 IFGZ＞6THENQ2－GR－6
3450 IFB2＜1THENG2＝6＊e2
3460 POKE36697， 62
3470 RETUPN
3500 1FS8－1THEN3600
3510 89＝1
3520 BOLNDA，1000，0
3530 PLAY0，1， 5,150
3540 AETLRAN
3600 PLAYO， $0,0,03$ 9日 $=0$
3010 RETMRN
3996 REMF＊

3998 REMES LANDED DN RGDF＊＊

4000 RF＝t
4020 PDKEJb日日9，0
4030 THTTM＋1ILFTH）A2THENEND

OOI MEYTI GOTO
4490
4050 FDRE1 1 TO1O1 $505 \cup 89300$
4060 FOAG2－4824日TDDEEK（800101－1

2F NEXT：NEXT
4090 BOSNB9400
－

4496 REMEE RETUHNEO TO BAEE TH

RF－O
4520 POKE36e99，0
4530 THーTM＊ 11 ［FTH（42THENEND
 OOINEXTIGOTD

4550 FOROI 1 TOIOL ROSUR 9300
4560 FDRET－DEEX（HFO10）+2 YO4B973
 2：AEXTIMEST

4798 REM* 4 RETURN FROH LANDINE *


3010 IFSS=1 THENGOSUB3520
$\$ 020$ RE TUFIN

50¢日 REMEV PRESS ANY KEY TG ETART te

\$100 1FLR=2THENC\&

S110 E\＄ㅁ YOU LOET ALIFE
3120 PLOTB． 25 ，G4

5140 PLOT日， $26, G 3$
5150 CALLe9：4？

 ES \＆RETUAN


5197 PEMt휼 CHECK FOR END DF CAHE 带


5200 IFRㅠㅇTHENS3O\％
5210 LR
 018）；E050524
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 01日）：©0T0524
－
5240 POKE．E1，1171POKEG2．117
5250 1FSS＝1THENPLAYO，5，1，5000
5260 WAITSOIPDKEG1，32：POHEG2，32
5270 E0T05450
5300 PLAYO，O，D，OICLS：PAPER7\％INKKO：PRINT＊GAME DUER AFRINT ：IFLRく 1 THEML

## ORIC PROGRAM

## R＝

53：0 PRINT＂YOU RESCUED＂§SCई＂FEGPLE＂ıPRINT
5320 Gi＝INT（ $((T M / 42)=100)=(L$ R／3）

5340 PRINT：1FG！＞HSTHENPRIKT＇A NEW HIGH SCDRE ：PRINT

536O PRTNT：PRINT＂ANY GTHEER KEY TO END＂：PR INT
5370 PRINF＂PLEASE＂ICHR丰（27）\＃＂LMAKE SELECYION＂

53\％0 CL8


5420 PRINTCHR（17），CHR（b）IBEMD
5430 Bu8ulis700：LR＝2



5470 PCKE4BOb2，LR＋49
54 BO IF SE＝DANDLR＝2THENPレロケム， 5,
5490 GOTOSOOO

$549 日$ REME＊PLOT END MESSAGE ON BCREEN＊＊

S500 FOREZ＝1 TOLEN，（G）
5510 PLGTE2＊4，E1，N1 $)^{N}$

5530 PLDtG2＋4， E 1 ，
$\$ 5 A O$ NEXTIRETURN
9240 POKEDEEK（W90：O），32\＆POKEDEEK（世9011），32

$929 日$ REM＊＊INCREMENT NO RESCUED＊＊

－ 300 IFAF＝OTHENSC＝SC＊1：CALL 9147
9310 1FgS＝THENPLAY1， $0,1,80$
7320 GロSบ日 740 ）
9340 RETURN

939 REM ․․ PLOT NEXT PROBLEM＇

9400 CPmCF $+1:$ IFCP 3 STHENCP＝1
9420 ：FCP＇$>1$ TMENTABU




9470 РСКЕロ2，7：©0TOT500

9490 G末＝＂Mmman ${ }^{6}$

9510 JFCP＝2THENOY（CP）－GY（CP）＊1CLSEDY（CF）$=\square Y(C)^{*} 1-1$
9520 IFCF＝2THEN9400
9570 FETUFN

95\％s REM＊A PLOF NO．RESCUED＊＊







969 REMFE DRAW PLAYING SCREEEN \＃D

9700 CLStPAPER4：］MK7IPRINTCHR（27）：＂W＂

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9760 PR［NT＂u $\operatorname{smmmanmman}$
9770 PRINT＂U manammma
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monmen－






9 920 BC＝0：BCELB960

9840 OY（1）$-2310 Y(2)=2: \square Y(3)=23$
7850 ［P＝OtTM＝0
9890 RE ${ }^{\top}$ JRN

999 REM＊＊INITIALIBATIDN＊＊

9700 FDRG1－46E56TO47039，READE2ः PGKEG1，G2 FNE XT 9920 FORGImIT0\＆：READDR（E1）IMEXT

9990 REYURN

999 REME DATA STATEMEKTS＊

10000 DATAE $3,2,15,16,16,6,39,31,59,3,51,31,16,32,4,56$
10010 DATA $3,2,15,16,14,9,39,31+3,3,51,31,16,32,4,56$
20020 DATAS $1,1,1,3,4,4,3,4,47,32,32,48,8,8,48, \mathrm{e}$
10030 DАТА1， $1,1,3,4,4,3,4,32,32,32,4 日, 8, a, 48,8$
10040 DATAS5，4日，51， $62,2,1,8,7,63,16,60,2,2,4,57,62$
10050 OीTA4日， $48,51, \Delta 2,2,1,8,7,56,16,60,2,2,4,57,62$
10060 DATAG3，63，33， $33,33,35,63,63,7,33,33,33,33,63,63$
10070 DATAGJ，32，16，日， $8,4,2,1,63,51,51,7,51,51,63$

10090 DATA37，41，37，45，45，51，51，63，35，51，51，43，45，41， 77 41

10100 DATA5，16，10，32，4，17，34，E
10110 DATA $_{1}, 16,24,2 \mathrm{~B}, 26,20,19, \ldots, 12,12,29,12,21,36$
10120 DATA1，1，40，40，1，0，0，1
 B，©6A， $6 C, 92$
10


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 4C， 0 F 日， 170 ，${ }^{\circ}$
$120 \mathrm{H}, \mathrm{BATAJ3,37,57,39,57,51,63,43,63,43,63,63,43,33}, \mathrm{75}$, 120
$6:$

## You could be on Our pages

We welcome programs, artleles and tips from our readers. If you feel that your work meets our standarts, please submit it to us for consideration for pubilication.

- Programts must ajways be semt on cassecte. Listings are helpful, but not nocessary. Check carefuly that they are bug-free.
include detalls of what your prodram does,
how lt works, varlables you have used and hints an conversion.
- Articles on using home computers should be no longer than 2,000 words. Don't worry about your writing ability - Just try to keep to the style in HCW. Articles most likely to be publlshed will help our readers make better
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## The com is DEAD...

# Contrtrity Iticheir Dumthtertirer R7世 

Marmalade, from Mirzorsoft, Holborn Circus, London

This 45 an educational tape contanang two programs. On stde one you have Toysiop, in Whel you must help Oliver by cotinting the toys he findreales, puting in yous arswer using the keyboard, A correct answer is rewarded with a beaming smale from Oliver, an medrrect ane provokes an angry frown.

The game is ammed at the early learner and the gleeful responses from my three-yetr-old shows it's near the maris. it is welt Illustrated with easlly recugnusable objects, L. ©, buats, teddies and bikes.

The "B." side has a slughty
more diffeult game, Lolliphops which starks with Olivet asking, "I like lollipops, do yout ${ }^{\text {N" }}$ It then proceeds first to count Iollipops and then to eaf them This gives a simple merroduction to adidtion and subtraction

After each section Oliver seen to be inctesting in tize because of the number of sweets he tras been earing Hy son responded "He'll be suck" and sure enough the next message on the screen was that Olwer felt anwel.
Overall thes is a good package to teach the younger or the slou learniag child basic nutmber sense
mistrections
ease of use
display
value for money
805
85 am
85

## - AIEWNI.

## 

## Cut 中hearart C-4

 RES:Chards, Stute G, Royctaft Hse, Luton Rd, Barking, Essex

These programs, in the "Fun to learn'3 sernes are mintended to help you deverop mathemalscal and logical skills. There are five games each winth rupe levels and autornatic difficulty edjustment anked to performance

The first game deals wuh refative sins of two rectangles The second deals with mental arithmanc. Give the name of a framd, enswer the questions correctly and 4 nicely animated monster eats your friend. Get them wrong or enswer too slowiy and you get caten

Times, tables aut arithmatic are the jubll Iwo games which are
vell execured
The final game ts called Wysiery Numbers. You are given three numbers and a total and you must provide the iwo arithmatsc operasors which. when combined with the three nambers, gtve a sum which will pravide the speefied answer This is a challengung lest of your deductive loge
Throughou? you are given the optron to fimish the game you are playing and relurn to the main menu, A score card is mamtaned miabling you to check your performance.

An ald to confidence as well as betng fun to play
A.W.

IMMTULI OHIS $\quad 85 \%$
ease ot use $\quad 8500_{0}$
graphics
value for money
8.50


Dragon Data, Kenfig Induateral Estare, Margim), Port Talbot 'A13 21'1

I have 60 adnul thal I am hecoming a tiltele seepsics of the value of the shape recognition (plegramis I see nowaday5. Yes, ti is something a conputer can do trasly walt but it ofien thas lutie basis in realus

Despite these reservations this series of games is well though. out and will teach the four shapes avolved quale well to they prevschool and infant sh ldsen it Is atmed dal
There are four options from the menu, each icading to a game Involving Mr Broct the bactger The first shows ham at work wilh las lorry collecting shapes and
deliverng them to the correa dumb. The secuad anvolves ham playing basketbalk by puttin farge and small shapes into the approptale hoop. We then mees 3 $y^{\text {a magician who hoder shapes in a }}$ mage box and this involves finkemory trazaligy wish the extra hiskill of short-ferm recall. Finally The bualds plelures using the shapes.
My main ctitucism is that there are only tragagles, circles squares and rectangles. A bigger sel of shapes would have been a Mince touch. The graphacs arc

mintructions
hease of ase
70 \%

 $85 \%$

# Wake faces and learn to count 

Shape up and piece together or learn to count with Oliver. Read what our educational reviewers thought

## Facemaker Dragon 32 E10.95

## Dragon Dara, Kenfig Industnal

 Friate Alargan Port Talbol SA13 2 PEI can't decide abous thus program. I've seen il on several computers now and I bave sult to be convunoed that it is an 'edurational' pregram is is interesting anu lun but
educational value Idoubi educational valise I doubi
Ihe anm is to enlarge vocabulary. A chald usting it has to underuland arth use words tealing with a face it is many valations. Therefore you could mean'rg of sech nords and immedial
meannat
The probletw is that there is a
great deal of teading tnvolved in usdersianding what is requized in the first place and the ctuld who diesn't turderstand the mearnas of et word is unlikely to be able to read it ether! So we end up in a Caich 22-type
I believe this pzogram would be best used in araup strutrured sirualiont rather thas a one chald plus mucro set+up and herefore cannot recommend it or home use, But If ite educational aspect doesn't worty you then makeng the fapes is really geod fun.
instructions ease of use graphics
value for money
5-4

##  Eammandora ERER

4
GMards, Sulte (1, Roycraft Hse Liaton Rd, Burking. Essex

It's greal pat that the sovernment lefl ali the bu fron Its recommended computers for the classroom - especially when you find software like th:
Fun so learn is a suite of five games wrtten by - teacher and iesied an schools (50 Shards ctam). The strengith is that rather than leave you sluck ia lone game, after each questton you cath continue es teturs to the menu. A saxth oplion enables you to examine a score card which leeeps a track of your weformance
Yous can play Count, in which lesters are randomly placed and tha mathone mitasures the fime laken to count the leiters.
Mixer is an anagram game which gives cluts to belp you umavel the jumbled word Calculator is a cumuative sum wheh gets progresstvely mare difficull. Starshop ts a version of Ghangman and Codebrcaker introduces simple codes.

Codebreaker and Starshp give the option to enier your owa words so that two chidren san? play the games rogether
Overall the routines run quickly and effectively end the overall desigh is good. The tuse of sound is good and graphucs are average. Thas is a good package whick should give hours of fup

Ifaructions
ease of use
graphics
value for mones

TI－99／4A GAMES FOR EVERYONE


ATIAATS（枟に）

 to the＇red perion


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## I INTRICOE <br> ©OFTW／RE

THE WAY FORWARD FOR THE TI 99／4A

## Iantern＇．Games That Shina SOFTWARE FOR THE TI 99 4A



BUILDER／MINEFIELD．



 Auturt and brpeetinct

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 RELEBSES

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## ．．．ong Live



By lan Livingstione

250k of pure mystery．Be the first to know． Send your nome and äddress to：Eurakral，228 Münster Road，London SW6 6AZ


CLASSIC ADYEITHRE This is the program that stated it alal. How you can discover the exectement at Classic Adventure on your Spectrum 48k, Commodore 64. BBC or Electron. It you are masterful enough you too could become a Master Adventurer "The classict brainteaser
Hicrovemome "ER's excellent but be warned: it's also very addictive." - Itan Company meny


STAR PROOPER is a last, action packed, machine language game for your Commodore 64 It's a game that will test the best arcade strategrists Amazing graphics and superb sound add to a game that onty the bravest will sunwet

## T <br> 14

## COMTMODORE 84



THE HOBST Visit J.R R Tolmen's Middie Earth tn the most amazing adventure yet devised "A game ty which future games wili be judged.
 any other adventure game."
Yerranome The Hobloft is now avalatile for the BBC, Oric. Commodore 6if ant Spectrum.

H.U.R.C. A revolutionary plece of soltware for your 48K Spectrum which allows you to develos thigh quality Machune Language arcade games with absouttely no programming expenence "it is difficsitt to fint fault with such a complete games generation program ${ }^{\prime}$
-Cn 童


COMMODORE GA HORACE GOES
Sxilub is the sequel to the very successful Hungry Horace $\mathrm{m}^{2}$ th. 5 adventure our here attempts winter sports. Skı ng 15 complete with slalom filags, trees and moguls so watch out Horact! "One of the most addictive packages yet encountered ' - zucmerom. Horacs Goes S*ang now avalable for Dragon.


FORTH. Abersoft Forth is an implementation of the forth Language for your Specirum 48ik Forth is closer to Machine Cade and more fhan 10 times faster than BASKC. "The only Spectrum package which has been enidorsed by the forth Interest Group:

Sindmul dw


MELBOURME ORAW. With
Melbourne Draw, you can create dazling, intncate colour graphics and puctures on your Spectrum screen without spectal programming sknils. "Scores the highest marks in user frendiness, only limited by imagination and antistic talen!! Mugsy graphics which were all toone using Meibourne Draw are quite stunnung". - Com


MUSSY gives a totally new direction for thonl seekers comic animation in text, stumning graphics and a full arcade gamel Mugsy ts your one and only chance to become the greatest gang teader with detinte ill repute. "Mugsy is detinitely the Goffather of all strategy games."
PC chan "Graphics excelleat. With some amazing anumation. A game that pounts the way forward." - Crum


## If you've ever fancied getting a rating from the Galactic High Commission, this program from Graham MeDonald will fulfil your wildest dreams



From the five-year mission of Star Trek, to the 300 second mission of Space Target wnth this tinree-pari program. it is in three parts so you can see that loading is taking place correcth.
Thus is the amount of ume you have to destroy as many targets as possible. When yous tune is up, you wall be told how many targets you have destroyed and what your score 1s. By the way, each target has to be hit 25 times before it is destroyed.

You will also be given a ralung by the Galactic High Commission.
To make the game harder,

## Vnrablet

a,b position of terget
x.y posilion of stup d number of destroyed largets h number of hits - tume
e, 1 colour of target
$z$ movement of target
y random laser
is, ss lasers ( 23 symbol shifts $0^{\prime}$ 's) tinal score
rs raling

How h works 10-17 stop tape rounine 19-68 begraning routine $69-17$ varrables
89.92 display rouune 99-150 If and Then area 179-308 star display 306.340 turie routine 399-500 laser routine 1000-1070 larget destroyed routine 1200-1280 targel laser's on and off tounse 1499 - 1650 shup hit by laset rovisne 1999.2170 finish 5999-6170 instructions 6149-62100 ume warmigg 7999.81130 music routine Q $2950-9560$ patac roatrine 98y9.9\%\%0 estape routine
the target has a laser which fires randomly, but this can be switched off and on by keys 4 and 5
Key 8, which is for escape, has a bit extra. It has a moutine which asks you if you want to load another program or clear the memory.
You now have the whole of the Galactic High Commission watching your qualtess and skills, 50 now is the time to show enterprise and get as many targets as you can.

Program 1, which telis yos the game is betng hoeded

```
10 REM Program No. }
ZO GORDER O: PAPER O: INK 7: BRIGHT I: CLEAR
30 PRINT AT E,3;"SPACE TARGET IS LOADING"
40 PRINT; FLASH 1%AT 12,9;"PLEASE WAIT"
50 FDR b=1 T0 5: BEEP . {,bz NEXT b
55 INK OE PAUSE 10
GO LQAD "NO.2"
```

Program 2, shows the narae of the game while the mig program to being loxded

10 REM Progran 2
10 REM Progran 2
20 BQRDER 0: PAPER O: INK 7: BRIGHT 1: CLEAR
20 BQRDER 0: PAPER O: INK 7: BRIGHT 1: CLEAR
30 GO SUE 5000
30 GO SUE 5000
40 PRINT AT 1,$6 ;$
50 PRINT AT 2,$6 ;$
40 PRINT AT 1,$6 ;$
50 PRINT AT 2,$6 ;$
60 PRINT AT 3,$6 ;$ "ㅁyt
60 PRINT AT 3,$6 ;$ "ㅁyt
79 FRINT AT 4,6;
79 FRINT AT 4,6;









Program 3, the man game program

```
2 REM
3 REM By Graham McDonald
4 \text { REM}
5 REM 19日4
6 REM
```

```
7 REM
8 LET aS=INKEY*
9 REM Stop Tape
10 BORDER 0: PAPER 0: BRIGHT 1s INK 7: CLEAR
1 1 \text { FOR bx1 TO 3}
12 PRINT FLASH &;AT 15;日;"STOP THE TAPE"
13 PRINT INGK 7;AT 10,3;"SPACE TARGET HAS LDADED." % BEEP .1,13
14 PAUSE 20
15 NEXT b
16 PAUSE 120
17 CLEAR
19 REM Beginnzmg
20 FOR n=1 TO 80
30 LET Y=RND*174+1
40 LET }x=\mathrm{ RND*254*1
50 PLOT x,y
6O NEXT n
```




```
65 PRINT # PAPER 7; INK D;AT 10,9;"SPACE TARGET"
t6 BEEP .1,20: PRINT AT 19,0;"Written By Graham McDonald 198"
67 FOR n=1 TD 3: BEEP - 25,0: BEEP . 25,3: BEEP . 25,5: BEEP 1.25,B: NEXT n: BEEP
.5,7: BEEP .5,3: BEEP .5,0: BEEP .5,3: BEEP 2,0: FDR n=1 TO 5OO: NEXT n: BEEP.
1,20: CLS : GO TO 6000
    68 FDR n=1 TO 500: NEXT n: BEEP . 1,20
    69 REM Varibles
    70 LET y=2
    71 LET d=0
    72 LET H=0
    73 LET E=3
    74 L.ET f=%
    75 LET a=10
    76 LET p=7
    77 LET $=0
    78 LET v=0
    79 LET g=450
    80 LET x=11
    ES LET b=25
    86 GO SUB 8000
    97 FOR c=1 TO 1
    B9 REM DiEplay
    90 PRINT ; PAPER 1; INK 7;AT x,Y;CHRS (143);CHR* (143);CHR今 (140); PAPER D;CHR
* (140)
    91 PRINT AT *,30;".": PRINT AT 1,0;"
    92 PRINT AT O,11;"Hitss";h
    93 PRINT AT 0,20;"Destroyedz";
    94 PRINT AT O;O;"Timez"#
    95 PRINT; INK e; PAPER f; FLASH 1;AT a,D;CHR$ (134): INK 7: PAPER O: IF V=5 T
HEN GO SUB g
```



```
APER
```



```
    90 LET VIINT (RND*7+1)
    99 REM If & Then Area
100 LET \$=INK.EY事
105 LET z=INT (RND*3+1)
1OA IF z=0 THEN LET ama-1
107 IF z=3 THEN LET a=a+1
10日 IF }z=1\mathrm{ THEN LET }a=a 
109 IF Z*4 THEN LET a=a-1
110 IF a$="名" THEN LET }x=x+
120 IF asm"7" THEN LET }x=x-
125 IF as=`9" THEN G0 SUB 7500
127 IF a$="B* THEN GO SUB 9600
```

```
    12日 IF as="5" AND g=450 THEN GO SUB 1200
    129 IF a$= "4" THEN GD SUB 1250
    130 IF }x>=18\mathrm{ THEN LET }x=1
    132 IF a>=18 THEN LET a=1日
    135 IF x<=4 THEN LET }x=
    137 IF a<=4 THEN LET, a=4
    138 IF s=250 THEN EO SUB 6200
    140 IF a$="m THEN GO SUB 400
    143 IF g=450 THEN PRINT; PAPER 2; INKK 7;AT 2,12;"Lager On!a
    147 IF g=96 THEN PRINT ; PAPER 4; INK O;AT 2,12;"Laser Off"
    150 IF h=25 THEN GO SUB 2000
    179 REM Stare
    180 PLOT 7,23: PLOT 15,157% PLOT 23,56: PLOT 31,78: PLOT 39,115: PLOT 55,21: PL
OT 55,121: PLOT 67,34: PLOT 76,34: PLOT 63,134: PLOT 95,75: PLOT 105,80: PLOT 14
4,127: PLOT 144,104: PLOT 159,111: PLOT 169,154
190 PLOT 184,34s PLOT 192,56: PLOT 200,日7: PLOT 20日,134: PLOT 216,56: PLOT 224,
34: PLOT 224,123: PLOT 232,100: PLOT 247,57: PLOT 247,127
    ZGO PRINT AT x-1,y%"
    262 PRINT AT x+1,30;" w
    263 PRINT AT }x=1,30;" "
    265 PRINT AT }x+1,y;
    270 PRINT AT a-1,b;" m
    275 PRINT AT *+1,6;" "
    3OO NEXT C
    305 REM Time
    310 LET s=s+1
    320 LET c=0
    330 IF 5=300 THEN GO TO 2000
    340 GO TO 89
399 REM Lasere
400 INK 2s LET f5%"
```

$\qquad$

``` \({ }^{*}\)
401 PRINT %AT x,6!&゙
405 日EEP . 1,30
410 PAUSE 102 PRINT AT }0,6\mp@subsup{0}{}{\circ
412 IF x*a THEN LET hmh+1
415 INK 7
4 2 0 ~ R E T U R N
450 IF a$="O" THEN RETURN
455 INK 4: LET Es=*
```

$\qquad$

```
                                "; PRINT AT 变,4;E%
460 EEEP = 1,35
470 PAUSE 10: PRINT AT a.4!"
4BO IF AEX THEN GO TO 1500
490 INK 7
5 0 0 ~ R E T U R N
1000 REM destroyed
1010 PRINT AT a,b;" "z PRINT AT *+1,b;" m& PRINT AT a-1,b;" "
```



```
1020 BEEP .075,30: BEEP $,10
1030 LET d=d+1
1035 LET h=0
1037 LET e=INT (RND*7+1): LET f=INT (RND*7+1)
1040 IF e=f THEN GO TO 1037
1050 PAUSE 100
1055 PRINT AT 0,O;"
1070 RETURN
1200 FEM Target's Laser Cut
1210 BEEP . 1;40
1230 LET g=96
1240 RETURN
1250 BEEP . 1,45
1270 LET g=450
12B0 RETURN
1499 REM Ship Hit
1500 INK 7% CLSS : BEEP 1, 10: BEEP 1,-15: BEEP 1,-20: BEEP 1, 25: BEEP 2,-30
```



```
1520 PRINT % PRINT
15.30 PRINT a The space target has hzt you"
```

```
1540 PRINT : PRINT Wwith it's laser cauming you to"
1550 PRINT : PRINT "withdraw from your aission. In"
15&0 PRINT : PRINT "a time of ";5;" seconds you have"
1570 PRINT : PRINT udestroyed ";0;" targets and have *
1575 LET fimal=h+(d*25)
15aO PRINT & PRINT "achieved a score of ";finaly" points."
1590 PRINT : PRINT ; PRINT "The Galatic High Commision have"
1600 PRINT & PRINT "advisRd you to try again and to"
1610 PRINT : PRINT "advoid the target's lasers"
1620 PRINT F FLASH I:AT 21,2; "PRESS ANY KEY TO PLAY AGAIN"
16.30 PAUSE O
1640 BEEP . 1,30
1650 CLS & GO TO 70
1999 REM FiniEh
ZOOO BEEP .5,3: BEEP .5,1: BEEP .5,6: EEEP -5,Bz BEEP 1,10z BEEP .5,8: BEEP 1.75
,6
2010 GURDER O; PAPER 0: CLS
2020 LET finalm#(d*25)
20.30 PRINT "!nem
ZO40 PRINT & PRINT : PRINT
2050 PRINT " You have run out of time. In"
2060 PRINT : PRINT "300 seconds you have destroyed"
2070 PRINT 2 PRINT d;" targets, and have achieved "
2080 PRINT & PRINT "; score of ";final;" points."
2090 IF &<6 THEN LET F$="PDOR"
2100 IF d>=6 AND d<<=9 THEN LET r$="AVERAGE"
2110 IF d>9 AND &<=12 THEN LET r$="GOOD"
2120 IF d>12 THEN LET r$#"EXCELLANT*
2130 PRINT: PRINT : PRINT ; PRINT "The Galatic High Commmeson have"
2140 PRINT : PRINT "gave you m";r$;" rating."
21SO PRINT ; FLASH 1;AT 21,2|"PRESS ANY KEY TO PLAY AGAINM
2160 PAUSE O
2170 CLS : G0 TO 70
5999 REM Instruetions
6000 PRINT "W, SPACE TARGET
6010 PRINT s PRINT & PRINT & PRINT
$020 PRINT " Your shooting has been lousy "
&030 PRINT I PRINT "lately, so the Galatic High Com="
G040 PRINT | PRINT "mission has decidad to put you"
b050 PRINT & PRINT "an a training missiani code"
606 PRINT ; PRINT "named 'Spate Target"."
6062 PRINT FLASH 1;AT 21,8;"PRESS ANY KEV"
61)63 PAUSE O
6064 EEEP - 1,20
6065 CLS = PRINT ", SPACE TARGET & PRINT
GO70 PRINT " You have 300 seconds ta destroy"
GOED PRINT s PRINT "as many targets you can. You "
6090 PRINT I PRINT "have to hit them 25 times to de="
6100 PRINT I PRINT "stroy them. Can you impress the"
6110 PRINT : PRINT "Galatic High Cammision?"
6114 PRINT: PRINT "Prege 4 for Target Laser:."
6116 PRINT "Press 5 for no Target Lasers."
G120 PRINT "Press & for town."
6130 PRYNT "Pr#sse }7\mathrm{ for up."
61.34 PRINT "Press 8 to escape."
6136 PRINT "Press }9\mathrm{ to pause"
&140 PRINT "Press D to fire."
6150 PRINT %. FLASH 1;AT 21;4;"PRESS ANY KEY TO PLAY"
$160 PAUSE O
6170 CLS BEEP . 1,20: GO TO 70
6197 REM Time Warning
6200 FOR j=1 TO 5: BEEP . 1,5: PAUSE 2: BEEP .1,5: PRINT ; FLASH 1;AT 0,0;"Time:"
;S: BORDER 2: NEXT j: FOR i=1 TO 10: NEXT 1: PAUSE O: LET S=s+1: AORDER O: RETLUR
N
7979 REM Music
8000 PRINT % FLASH i;AT 10,7;"PREPARE TO PLAY"
8020 BEEP 1,10: BEEP .2,13: BEEP - 2,5: BEEP 1,10: PAUSE 6: BEEP - 2,13: BEEP . 2,5
```


## PROGRAM

```
# BEEP . 2,10z EEEP . 2,13; BEEP .2,5: BEEP .5,10
B023 CL.S
8030 RETURN
9499 REM Pause
9500 BEEP - 1,30
9510 PRINT % FLASH 1;AT 10,12;"PAUSE"s
7515 PAUSE }2
9520 INPUT " PRESS ENTER ";2%
9540 PRINT AT 10,12;"
9550 BEEP . 1,32
9560 RETURN
9599 REM Escape
9600 FOKE 23609,255: FOR m=1 TO 25: BEEP .02,m: BEEP .02,m+4: BEEP .025,m*2.5: N
EXT m
9605 LET p=60; FOR m=1 TO 25: BEEP .05,p: LET p=p-2z NEXT m
```



```
9 6 2 0 ~ P R I N T ~ : ~ P R I N T ~ \& ~ P R I N T ~ \% ~ P R I N T ~
9630 PRINT "Ypu have pressed kev ' 8' to ''
9640 PRINT | PRINT "escape. If you have pressed it"
7650 PRINT * PRINT "accidently then ENTER 'r"turn'="
9660 PRINT F PRINT "If not so then ENTER 'cont.."
9670 INPUT " (return OR cont?)";bs
9680 IF b$="return" THEN CLS : RETURN
9690 IF b$="cont" THEN GO TO }971
9700 GG TO 9670
```



```
7720 PRINT : PRINT & PRINT : PRINT
9730 PRINT " Q.K. Do you want to "load" ano->"
7740 PRINT 1 PRINT "ther game or "clear" the memory?"
9750 INPUT b*
9760 IF b$#"lgad" THEN CLS : PRINT AT 20,0;"Start tape, then press any key.": B
EEP .1,20: PALSE O& CLS : L@AD "'*
9770 IF b$#"clear" THEN GO TO 9日OO
9790 G(J TO 9750
```



```
7日10 PRINT & PRINT y PRINT ; PRINT
9820 FRINT " O.K. The memory will clear the"
9030 PRINT : PRINT "memory in ten seconds."
9832 PRINT & PRINT & PRINT " Press A to return to last stage"
9833 FOR a=1 T0 170% NEXT *
9835 LET g=10
9840 FOR m=1 T0 10
9日45 BEEP - 1,24
9日50 PRINT AT 14,0;{%" Seconds. "
9060 LET s=%-1
9865 IF INKEY$#"A" OR INKEY$="未" THEN GO TO 9710
9870 FOR n=1 T0 26: NEXT n
9880 NEXT m
9881 BEEP . 1,5: BEEP - 1,5: BEEP . 1,5: PRINT AT 14,0;" Goodbyer'": FOR n=1 TO 100
: NEXT ת
9990 NEW
```




## 54 PROGRAM

## 

1 FEMWWDFLD WHR



FORVN $=1$ TGIS NERT NM HEKTK PORES 3281 , 0 POKES3234, 0
TPRINTCHR ( 14 ? , PIKEE 2,48 POKES6, 48 CLR

15 POKE 1 . FEEK ( 1 ) HND2 2 I
28 FOK $\mathrm{I}=$-STD 511 POKE $\mathrm{I}+12288$, PEE
25 PCKE1, FEEK(t)UR4
POKE5E 3 34. PEEK (56334) DR

PRINT":フ"
FIIRI $=12296$ TOR 2364 FEFIN EONEI, A NEXTI
FDREB=12552TO125 0 REPIE POKEBB, B NESTBB


48 FCNIU $=1256$ GTO12568+3 REHDE POKEItIE MEXTIU




## 


PQKET, 23 FPORET, 1 NEXTT $\mathrm{HE}=1344 \mathrm{AC}=55 \mathrm{E} 15$
$6=55296$ FORP $=1224$ TO1024+119 POFEP, 33 FOFEY, $\%=\gamma+1+N E \%$





5 FFFF=1 THENOS
5. PE~FEEK (5上 321 )

I IFFE $\angle 4$ ? THENPOKEMB -2 FOK EAC, $1 \quad A B=A B+1 \quad A C=A C+1$ IF $A B>17 Q 4$ THENAB $=A B-1 \quad F C=A C-1$



 T
 -

41
39
83 POKEAB 1 FUKEAC, Ih
83 POKEAB
85 GOTO60
FA POKE FID, 32 POK EAS.5
$31 \quad \mathrm{AD}=\mathrm{AB}+1 \quad \mathrm{AS}=\mathrm{AC}+\mathrm{A} \quad \mathrm{J}_{1}=\mathrm{AD}$
52 FIJKE 54296,15 FORXE 1 TOIG MEXY PORE54296.0
93


98. NEXTXY

99 POKERD, 45 FOKEAS. 1 , $30 T 056$
1 1.5 If TY= $=1$ THENGG
1115 IFI $=8$ THENRN $=1133+49+4 \mathrm{AR}=59455+46+4 \mathrm{C}$
119 IF I 2 THENAT $=1123+411+4{ }^{2}+46+40 \quad$ AR $=55455+46+4+4+4+412$

116 TJ=AT
120 F2. EAT O\& FLIKERR

## COMMODORE 64 PROGRAM



```
123 IF HT-1 = HEORAT-AETHENHシ5
```



```
13 GOTOE6
```






```
144 POZEAD, 32: POR, EAS, \(1: S C=3 C+196\) GOTO6E
```




```
155 POKEFG, 1 ; POKEHH, 1 . POKEET, 1:POKEEV, 1. POKECY, 1:POKEVI, 1
16G FORY=1T040 NEXTY
```











```
2019 「ロT 15
気 1 TI事三"
```






```
255 FETINK
```





```
1020 DFTFR, \(0,0,24,24,0,0,0,0\)
1025 규TH, \(124,66,66,66,66,66,124,0\)
1030 IATMO, \(0,60,35,36,50,0,0,255\)
1035 IATA255,129,139,129,1_9,129,129,255,255
1040 IATF \(155,165,165,165,165,165,165,1 \div 5,165,165\)
```








```
2020 PRINT"MDNHOU ARE AN FHERICAN RHD YOU HAYE TO"
```



```
2月3D PRIHT"DO HOT SHOOT WOU THEY INTEND TO CRFBH"
2835 PRINT"ON YOU . PLUS JOY'STICK IN FORT 1."
```





```
2053 PETUFN
```





```
207 FraEHE,
2079 IF SCOHITHEHHI-
```





```
2以S \({ }^{2}\) FEM
```



```
30GG REM* THE END *
3205 REMK WOFLD WMF ;
3019 REM* EH S.IEVANI +
3 O15 REM WCLUE HOIJ: E SO.
3日, 以 FEM***************
```



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[^1]:    Variablex
    G1, G2 general puspose numeric variables
    GS general purpose string variable
    DR (1-s) movement of helicopTMer
    TM Irips made between the bases
    LR lives remaining
    SC score - number of people tescrued

    ## HS high score

    fF flag to indicate which landing site is next in sequence
    OX(1-4) X,Y co-ordinates of the
    OYhaslards to be plotted
    CP subseript of hazard to be plotied

